Municipality/Organization: Town of Brewster, MA

EPA NPDES Permit Number: **MAR 041096**

MaDEP Transmittal Number: **W-040679**

Annual Report Number & Reporting Period: **No. 3: March 2005-March 2006**

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Charles L. Sumner Title: Town Administrator

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Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

Printed Name: Charles L. Sumner

Title: Town Administrator -0 Town of Brewster

Date: January 12, 2007

Part II. Self-Assessment

The Stormwater II program in Brewster for the period between March 2005 and March 2006 was interrupted for various reasons. A major personnel change occurred in the spring of 2005 when the Town's DPW Superintendent retired after 20 years of service. Our new superintendent, Robert l. Bersin, PE, started work on June 1, 2005 and faced several obstacles, not the least of which was learning the Town of Brewster policies and procedures. Several significant personnel issues required attention and we were facing the busy summer season on Cape Cod. In November 2005, Mr. Bersin underwent emergency surgery to rebuild a detached retina in his left eye. The surgery required a significant recuperative period and when lost the use of the left eye. These obstacles had a significant effect on our ability to address issues beyond the daily DPW needs of the community. This is evidenced by the delayed submittal of the 2006 Annual Report. We do, however, intend to address the Stormwater II Program issues as originally approved over the next few years.

Brewster is a coastal community and has a keen interest in protecting our surrounding resources. Through the above mentioned transition period, we continued our catch basin cleaning and street sweeping programs and several smaller stormwater projects were addressed. The Town also purchased, for conservation purposes, the Jolly Whaler property on Route 6A. This purchase removed a campground and other housing facilities abutting Route 6A and Stony Brook/Paine's Creek where the stream enters Cape Cod Bay. Stony Brook/Paine's Creek is a migratory fish habitat and the waters of the Bay are a significant shellfish resource as well as family recreational area. Development on the property has been razed and the property will remain undeveloped with the exception of the installation of stormwater remediation facilities for untreated Route 6A runoff. We have also applied for a Coastal Zone Management Non-Point Source (CZM - NPS) pollution grant for an assessment of the entire watershed. The results will be used to assess various outfalls, soil conditions, and drainage areas in the watershed for use in future planning, design, and construction of remediation projects.

In closing, although we have experienced a setback in achieving several of the goals in the Stormwater II Management Plan, we are certainly aware of the plan requirements and plan to move forward. Our new superintendent is a licensed Professional Engineer with experience in Public Works and Stormwater related issues. This experience will be an asset in future projects and other compliance issues. We have identified several areas where remediation is required and we plan to follow through on the various By-Law requirements.

Please review the above information and related material in the attached report and contact me or Mr. Bersin directly with any questions or comments.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
	Develop and distribute educational materials	BoH – Nancy Ice	Biannual Mailings	As indicated in our self assessment, personnel changes have adversely affected the program. As such, a limited handout program was conducted at the Transfer Station	Increase the use of the Town's website with links to flyers, documents, and other stormwater related websites (epa, dep, etc). This department also intends on preparing flyers etc for handout at the Transfer Station, during Beach/Transfer Station sticker sales, and for display/pick up at the Town Hall
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
	Establish Stormwater Web Site with pollution reporting capability	IT – Kathleen Lambert	Town Web Site is operational with Stormwater links under DPW section	Complete with ongoing improvements.	The Department of Public Works will continue to add/update Stormwater issues on the site.
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
	Map Stormwater facilities	Robert L. Bersin, PE	Update Stormwater date on Town GIS system,	Again, personnel changes as outlined under self assessment have affected this section of the program. In addition, the Town's GIS system implementation has been affected by budget limitations. Training and/or additional personnel to implement the program have been limited.	The new DPW superintendent is more familiar with GIS, stormwater issues, and the engineering required in developing stormwater remediation projects. We are requesting grant funding for a GPS unit and the GIS system is installed at the DPW. It is our intention to move forward with the mapping program.
Revised		DPW Superintendent			
	By-Law prohibiting illicit discharge	BoH – Nancy Ice	Pursue passage of Stormwater By-Law	Ongoing discussions of By-Law language	Continue with By-Law development
Revised					
	Illicit discharge detection	Robert Mant		Continued sampling and Analysis	Continue program
Revised		Natural Resources Coordinator	Sampling and Analysis of water bodies		
Revised					
Revised					
Revised					

3a. Additions

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
	Revise Development Plan Review By-Law	Planning Board	By-Law update	Again, personnel changes as outlined under self assessment have affected this section of the program. Development of a revision was delayed.	We plan to move the project forward.
Revised		Elizabeth Taylor			
	Establish public input ,echanism	Planning Board	In progress	Working on program language	We plan to move the project forward
Revised		Elizabeth Taylor			
Revised					
Revised					
Revised					
Revised					

4a. Additions

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
	Revise Development Plan Review By-Law	Planning Board	By-Law update	Again, personnel changes as outlined under self assessment have affected this section of the program. Development of a revision was delayed.	We plan to move the project forward.
Revised		Elizabeth Taylor			
	Construction Inspection	Construction inspection by proponent engineer and DPW	Continued project construction inspection.	Ongoing	Develop/revise construction inspection protocol.
Revised					
Revised					
Revised					
Revised					
Revised					

5a. Additions

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
	Employee Education	James Bearse	Training programs	Continue with employee training	Continue program
Revised		DPW Foreman			
	Operation & Maintenance Schedule	James Bearse	Annual catch basin cleaning and annual winter sand cleanup	Ongoing with continued refinement	Continue program
Revised		DPW Foreman			
Revised					
Revised					
Revised					
Revised					

6a. Additions

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) *<<if applicable>>*

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
	N/A				
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

N/A

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures	($)	$50,000

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	5,000
Stormwater management committee established	(y/n)	N
Stream teams established or supported	(# or y/n)	N
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Y
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	6
▪ community participation	(%)	33.5%
▪ material collected	(tons or gal)	6.1 T
School curricula implemented	(y/n)	N

Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination		X		
▪ Erosion & Sediment Control		X		
▪ Post-Development Stormwater Management		X		
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination		X		
▪ Erosion & Sediment Control		X		
▪ Post-Development Stormwater Management		X		

Mapping and Illicit Discharges

Outfall mapping complete	(%)	25% (Est)
Estimated or actual number of outfalls	(#)	100 (Est)
System-Wide mapping complete	(%)	25% (Est)
Mapping method(s)		
▪ Paper/Mylar	(%)	75% (hand Sketches)
▪ CADD	(%)	0%
▪ GIS	(%)	25% (Est)
Outfalls inspected/screened	(# or %)	10% (Est)
Illicit discharges identified	(#)	0
Illicit connections removed	(#) (est. gpd)	0
% of population on sewer	(%)	0%
% of population on septic systems	(%)	100%

Construction

Number of construction starts (>1-acre)	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	25%
Site inspections completed	(# or %)	10 (Est)
Tickets/Stop work orders issued	(# or %)	0%
Fines collected	(# and $)	0
Complaints/concerns received from public	(#)	10

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	0
Site inspections completed	(# or %)	0
Estimated volume of stormwater recharged	(gpy)	unknown

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1/yr
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1/yr
Total number of structures cleaned	(#)	900
Storm drain cleaned	(LF or mi.)	250 ft
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	500 T

Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Stored at Transfer Station – waiting for BMP dev elopement and approval
Cost of screenings disposal	($)	0

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	1/yr
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	1/yr
Qty. of sand/debris collected by sweeping	(lbs. or tons)	350 T (Est)
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Stored at Transfer Station – waiting for BMP dev elopement and approval
Cost of sweepings disposal	($)	0
Vacuum street sweepers purchased/leased	(#)	0
Vacuum street sweepers specified in contracts	(y/n)	0

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	unknown
▪ Herbicides	(lbs. or %)	unknown
▪ Pesticides	(lbs. or %)	unknown

Anti-/De-Icing products and ratios	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	4:1 Sand/NaCl 200 gal 0 0 0 0 4:1 Sand/NaCl
Pre-wetting techniques utilized	(y/n)	Y
Manual control spreaders used	(y/n)	Y
Automatic or Zero-velocity spreaders used	(y/n)	Y
Estimated net reduction in typical year salt application	(lbs. or %)	5% (Est)
Salt pile(s) covered in storage shed(s)	(y/n)	Y
Storage shed(s) in design or under construction	(y/n)	N